

# 540 Accepted Out of 5,019 Applicants in a Record-Setting Year

By Robert McQueen  
STAFF REPORTER

MIT accepted 10.7 percent of early applicants this year, in what may be the most competitive admissions season yet. Out of 5019 applications, 540 students were offered early admission, according to Dean of Admissions Stuart Schmill '86.

Compared to last year, the early action pool grew by 28 percent, though roughly the same number of students were accepted.

A storm of regular applications caused the admissions office to extend the deadline to Jan. 3. Though they have not all been counted, Schmill said he is confident MIT received at least 15,000 applications, a significant increase over the 13,396 regular applications last year. Despite the growing number of applications, Schmill said there are no plans to increase the size of the incoming class.

Schmill said the increase in early applications is partly due to MIT's decision this year to participate in the Questbridge College Match Program. Questbridge, a California-based non-profit, helps low-income students apply for full-rides at prestigious colleges. Close to 600 students applied early to MIT through Questbridge, and 36 of were accepted. Over 25 top US universities participate, including Princeton, Yale, Caltech, and Stanford.

Schmill added that rising tuition

and the economic downturn might also have contributed to the swelling admissions numbers: students may be applying to more schools to increase their chances of receiving financial aid.

The students who were accepted early represent 45 U.S. states and come from 442 different schools (74 percent of them public). Since early action is only available for students who are U.S. citizens or permanent residents, no international students were accepted. Last year, international students made up 9 percent of the incoming class.

Valedictorians made up 42 percent of accepted students; 93 percent ranked in the top 5 percent of their class. Median math and verbal SAT scores of accepted students were 780 and 730, respectively. The male/female ratio is 53:47, and 29 percent are minorities with 18 percent Latino, 9 percent African American, and 1 percent Native American.

The application deadline for regular admission was extended to January 3 after an overwhelming number of applications slowed the admissions servers and caused delays on the website, Schmill said. Most applications are submitted online, though MIT Admissions receives all teacher recommendations via mail.

According to the MIT Admissions website, regular admissions results will be mailed out in the middle of March.



ANDREA ROBLES—THE TECH

Soloists Michael R. Miller '09 (front left) and Bryan K. Koo '09 (front center) sing "Get Over It" by OK Go at the Logarhythms' Winter Concert on December 12 in Kresge Theater. See page 6 for more photos from the concert.

## Overloaded Spam Filters Dropped Some Gmail E-mails Sent to MIT

By Michael McGraw-Herdeg  
EXECUTIVE EDITOR

If your friend swears he invited you to that party, but you never got the e-mail, he might just be telling the truth.

For more than three weeks, e-mail sent by users of Google's popular Gmail service to MIT has been delayed or left undelivered, confounding the common belief that e-mail

is a fast, reliable way of sending a message. The problem was simple: Gmail was getting too popular.

The Barracuda Networks machines that filter spam out of MIT's incoming mail are configured to accept only about a hundred connections an hour from any one server. But Google's servers were sending mail much faster than that, and MIT told Gmail that "too many connections" were received.

On Tuesday afternoon, MIT Network Manager Jeffrey I. Schiller '79 implemented a fix which was likely to solve the problem, by telling MIT's spam firewalls to ignore con-

nection limits when processing mail from Gmail servers.

The errors may reflect the growing popularity of Gmail among MIT community members, who may forward their mail there while continuing to use their username@mit.edu. Google is the largest recipient of MIT mail beyond internal mail servers, according to Schiller: one MIT mail delivery server sent about 35,000 messages a day to an MIT mail server and about 34,000 messages a day to Gmail servers.

Schiller said MIT Information

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## Patrick Proposes Ethics Reform to Curb Corrupt Politicians and Lobbyists

By Abby Goodnough  
THE NEW YORK TIMES

Responding to a rash of public corruption scandals in Massachusetts, Gov. Deval Patrick on Tuesday proposed steeper fines for ethics violations and other improvements to laws meant to keep government officials and lobbyists honest.

"No one can legislate morality, we all know that," Patrick, a Democrat, said at a news conference at the State House. "But we can assure ourselves

and the public that the consequences for breaching the public trust will be serious, swift and certain."

The laws governing ethics and lobbying in Massachusetts have not been overhauled in years, Patrick said, and "significant gaps and weaknesses" make them hard to enforce. His proposals include increasing the maximum punishment for bribery to \$100,000 and 10 years in prison,

Ethics reform, Page 11

### Lauren Tsai '04

MIT NEWS OFFICE

Lauren Tsai '04, who graduated from MIT with a bachelor's degree in mechanical engineering, was killed Saturday, December 13 in a car crash in Newton. She was 26.

Lauren was the sister of senior Geoffrey Tsai '09 and of Michael Tsai '02. She was originally from Etna, N.H., but lived in Waltham and worked for Raytheon.

"We send our condolences to the Tsai family in the tragic death of Lauren," said Chancellor Phillip L. Clay. "Our hearts are with Michael and Geoffrey at this difficult time with the loss of their sister. I know this is a painful loss. I hope Lauren's memory will sustain her family and friends in this difficult time."

A passionate athlete all her life, Lauren was a co-captain of the varsity field hockey and the varsity basketball teams while at MIT. In addition, she skied, skated and hiked and played baseball and softball. As a high school student at Phillips Academy in Andover, she played

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ERIC D. SCHMIEDL—THE TECH

Hackers placed a bed and accompanying sign marked "Save Point: You may rest your party here" in the student lounge adjacent to Lobby 10 in the Infinite Corridor on the morning of December 17. The bed was a reference to video game "save points," as well as the approaching end of the Fall 2008 term and final exams.

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# WORLD & NATION

## Jeb Bush Won't Seek Senate Seat in 2010 Race

By Damien Cave

THE NEW YORK TIMES

MIAMI

Former Gov. Jeb Bush of Florida said Tuesday that he would not run in 2010 for the Senate seat being vacated by Mel Martinez, ending speculation about whether he could renew the Bush brand in Congress.

The decision, less than a month after Martinez, a Republican, announced his plan to retire, shocked many Republicans. Local fundraisers; Bush's brother President Bush; and his father, former President George Bush, all encouraged him to enter the race, predicting he would re-energize the Republican Party. But in a statement, Jeb Bush said they would have to wait.

"While the opportunity to serve my state and country during these turbulent and dynamic times is compelling," he said, "now is not the right time to return to elected office."

Why the timing was wrong, he left others to speculate. Friends and former aides said the calculus was both personal and political.

Bush, they said, has grown accustomed to a more private life since he left office in 2007. He lives here with his wife, Columba, splitting time among at least two corporate boards, a consulting firm he founded — where his son Jeb Bush Jr. also works — two foundations focused primarily on education, and speaking engagements that bring in tens of thousands of dollars.

## Mysterious Sweet Smell From 2005 Returns to Manhattan

By Trymaine Lee

THE NEW YORK TIMES

NEW YORK

The mysterious sweet smell that swept over parts of the city more than three years ago returned on Monday night.

The city's 311 information line was flooded with callers reporting the smell of maple syrup, or something like it, wafting across several neighborhoods, a spokesman for the Office of Emergency Management said.

Nearly all of the calls — 35 in just a few hours — came from areas in Manhattan, the spokesman said, although one caller reported smelling the sweet scent across the East River in Queens.

Department of Environmental Protection agency investigators were searching for the source of the smell late Monday night and early Tuesday morning, the agency's spokesman said. The strange, syrupy scent has descended on parts of New York City and New Jersey at least three times before. Beginning in the fall of 2005, people in various areas of the city and nearby New Jersey reported the scent. Officials ruled the odor harmless but never solved the mystery of its origin.

## Saving a Squirrel By Eating One

By Marlena Spieler

THE NEW YORK TIMES

Rare roast beef splashed with meaty jus, pork enrobed in luscious crackling fat, perhaps a juicy, plump chicken ... these are feasts that come to mind when one thinks of quintessential British food. Lately, however, a new meat is gracing the British table: squirrel.

With literally millions of squirrels rampaging throughout England, Scotland and Wales at any given time, squirrels need to be controlled by culls. This means that hunters, gamekeepers, trappers and the Forestry Commission (the British equivalent of forest rangers) provide a regular supply of the meat to British butchers, restaurants, pate and pastry makers and so forth.

The situation is more than simply a matter of having too many squirrels. In fact, there is a war raging in Squirreltown: invading interlopers (gray squirrels introduced from North America over the past century or more) are crowding out a British icon, the indigenous red squirrel immortalized by Beatrix Potter and cherished by generations since.

## Russia Cuts Gas And Europe Shivers

By Andrew E. Kramer

THE NEW YORK TIMES

MOSCOW

Gazprom, the Russian gas monopoly, halted nearly all its natural gas exports to Europe on Tuesday, sharply escalating its pricing dispute with neighboring Ukraine. The cutoff led to immediate shortages from France to Turkey and underscored Moscow's increasingly confrontational posture toward the West.

Across Europe, countries reported precipitous drops in gas pressure in their pipelines at the peak of the winter heating season in a bitterly cold January.

In one sign of the extent of the shutoff, Ukraine's president, Viktor A. Yushchenko, said Gazprom intended to halt all shipments passing through his country, which account for about 80 percent of Russian gas exports to Europe. Europe, in turn, depends on Russia for 40 percent of its imported fuel.

While each side blamed the other for the scope of the latest drop in gas shipments, Russia's prime minister, Vladimir V. Putin, had personally announced on Monday evening on state television that he was ordering a sharp reduction in gas flows, saying Ukraine

was siphoning gas from the pipelines without paying.

For Putin, the escalation comes at a perilous time, as slumping energy prices threaten the fiscal health and political stability that have underpinned his popularity at home.

Some analysts of Russian politics had expected Putin to become more conciliatory as energy prices fell. Instead, he has taken a hard line in seeking to raise gas prices in Ukraine and perhaps create panic-buying on the international market, where prices of natural gas and oil, Russia's leading exports, have fallen sharply in recent months.

"They're still playing hardball, when they have to realize the rules have changed," Marshall I. Goldman, a senior scholar in Russian studies at Harvard and the author of the recent book "Petrostate: Putin, Power and the New Russia," said in a telephone interview. "It happened so quickly that I don't think they've had time to realize the implications."

With temperatures plunging, European leaders expressed mounting concern. Some countries announced rationing for industrial customers to reserve enough heating for residential

buildings.

A spokesman for the European Commission said that the cut had come "without prior warning and in clear contradiction of the reassurances given by the highest Russian and Ukrainian authorities," adding, "This situation is completely unacceptable."

By Tuesday evening, even as more than a dozen European countries faced the risk of shortages of heating fuel, Gazprom threatened additional cuts.

The cutoff appears to have multiple aims.

Ukraine has angered Russia by seeking membership in the North Atlantic Treaty Organization, as has Georgia, a country Russia fought a brief war against last summer.

Putin is also under heavy pressure domestically. Oil and gas exports provide about 60 percent of the Russian budget; oil prices, meanwhile, have fallen by about two-thirds since their peak last summer.

The effects are rippling through the economy. The ruble is being devalued, Russian companies are facing bankruptcy and the government's huge budget surplus will turn into a deficit next year if prices do not rebound, analysts say.

## Obama Seeks Support for His Plan for the Economy

By Jeff Zeleny and David M. Herszenhorn

THE NEW YORK TIMES

WASHINGTON

Two weeks before assuming power, President-elect Barack Obama took his economic recovery package to Capitol Hill on Monday and worked to build a bipartisan coalition to endorse his plan of tax cuts and new spending with an urgent appeal "to break the momentum of this recession."

Obama, on his first full day in Washington since the election, held a series of face-to-face meetings with Democrats and Republicans as he began investing his political capital. He spoke of the nation's economic condition in dark terms and urged Congress to pass the legislation within a month.

"Right now, the most important task for us is to stabilize the patient,"

Obama said. "The economy is badly damaged — it is very sick. So we have to take whatever steps are required to make sure that it is stabilized."

The meetings were a mix of symbolism and substance between the man who will be sworn in as the 44th president and the congressional leaders who hold the fate of his agenda in their hands. The sessions, aides said, were particularly aimed at encouraging Republicans to buy into the plan and help ease resistance over a \$775 billion price tag.

Obama pledged to help advance the legislation in any way he could, participants said, including inviting skeptical members of Congress to meet with him at his transition headquarters or at his temporary residence, the Hay-Adams Hotel.

"This is not a Republican problem or a Democratic problem at this stage," Obama said Monday after-

noon. "It is an American problem, and we're going to all have to chip in and do what the American people expect."

After meeting for about an hour in the Lyndon B. Johnson Room near the Senate chamber, congressional leaders said they expected a bipartisan effort to approve the massive economic stimulus package by early February. Lawmakers said they were waiting for Obama to present a written proposal — perhaps even draft legislation — within days. Various House and Senate committees would fill out the details.

The president-elect returned to the Capitol in the afternoon for a meeting with Vice President-elect Joseph R. Biden Jr. and Sen. Harry Reid, the majority leader. He then proceeded past a huge crowd of photographers to the meeting with House and Senate leaders from both parties.

## WEATHER

### Anomalous Snowy Winter?

By Garrett P. Marino

STAFF METEOROLOGIST

With both winter and 2009 barely underway, Boston has already accumulated over 25 inches of snow. We are well ahead of a normal winter season's pace of 9 inches up to this point. Interestingly, the 2007-08 winter season started at a similar pace, with about 28 inches reported by early January. That winter tallied over 50 inches, compared to the 40-inch average.

By the time you read this, another few inches will have already been added to this year's snow totals. A low-pressure region to our southwest will track over us today, advecting warmer air northward. Snow will quickly change to sleet and rain by the early morning, but temperatures will remain only a few degrees above freezing. This system will depart by Thursday morning and usher in colder air for the foreseeable future. The only other potential weather player will come on Saturday, which may bring a period of light snow to the area.

#### Extended Forecast

**Today:** Snow quickly changing to sleet and rain by the early morning. Snow accumulation around 2 inches before the changeover. Highs in the upper 30s°F (3°C).

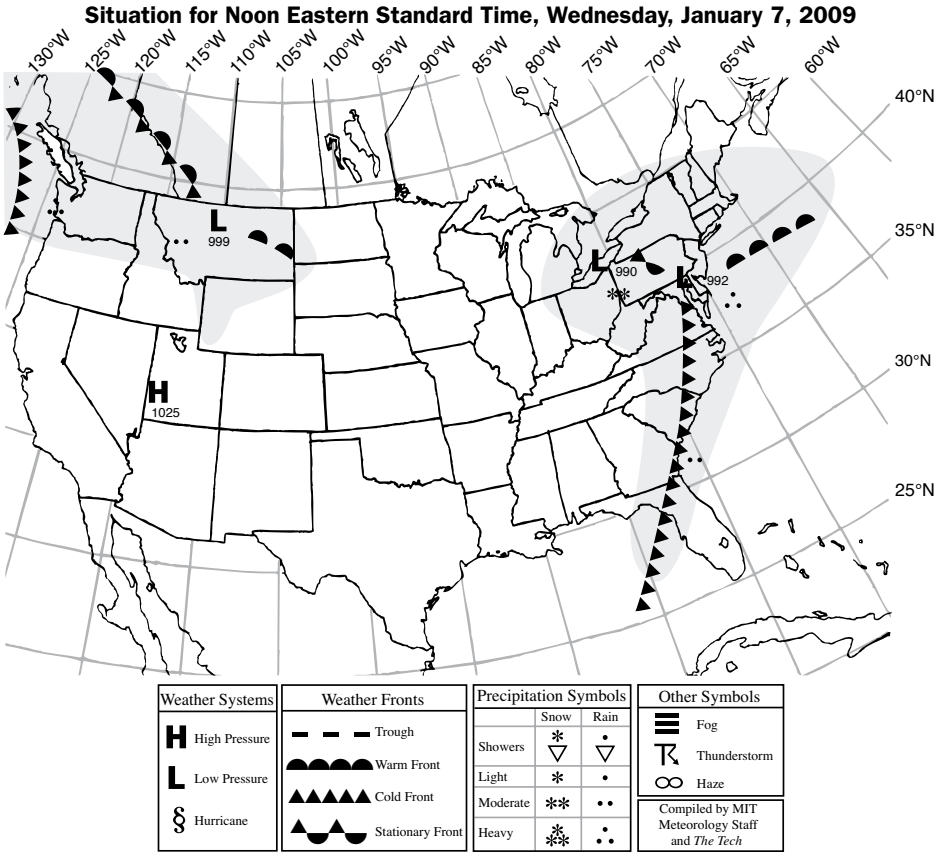
**Tonight:** Periods of rain, changing to light snow. No snow accumulation. Lows in the upper 20s°F (-2°C).

**Tomorrow:** A slight chance of snow in the morning. Breezy with highs in the mid 30s°F (2°C).

**Tomorrow night:** Clearing skies and breezy with lows in the upper teens°F (-7°C).

**Friday:** Sunny and cold with highs near 25°F (-4°C). Lows around 15°F (-9°C).

**Saturday:** Light snow possible with highs near 30°F (-1°C). Lows around 20°F (-7°C).



# Israeli Shells Kill 40 At Gaza U.N. School

By Taghreed El-Khodary and Isabel Kershner  
THE NEW YORK TIMES

GAZA CITY, GAZA STRIP

Israeli mortar shells killed as many as 40 Palestinians, among them women and children, outside a U.N. school in Gaza on Tuesday where they were taking refuge from 11 days of fierce fighting. The Israeli military contended that Hamas fighters had fired mortars from the school compound, and U.N. officials called for an independent inquiry into the incident.

But the rising civilian death toll in crowded Gaza heightened international urgency to end the combat. American and European diplomats said it was highly likely that Prime Minister Ehud Olmert of Israel, which has said it would not end the operation until it crushed Hamas' capacity to fire rockets into its civil-

ian areas, would travel to Egypt on Wednesday to discuss a cease-fire.

Meanwhile, Hamas continued to fire off rockets despite the large numbers of Israeli troops on the fourth day of the ground operation in Gaza. One rocket reached farther than ever into Israeli territory, only 20 miles from Tel Aviv, and wounded an infant.

With another day of gory news reports being repeatedly flashed around the Arab world, Israel contended that the deaths at the school demonstrated Hamas' callousness to the lives of the Palestinians' own civilians: The Israeli Defense Force said it was responding to mortar shells from the school compound, in the packed and militant Jabaliya refugee camp in northern Gaza, and fired several mortar rounds near the school.

"They shot back to save their own lives," said Ilan Tal, an Israeli military spokesman and a brigadier

general in the reserves. Among the dead, the military said in a statement, were "Hamas terrorist operatives and a mortar battery cell." The military identified two Hamas operatives, Imad Abu Asker and Hassan Abu Asker, as having been killed.

A young witness from Jabaliya, Ibrahim Amen, 16, said that he had seen one of the militants, whom he identified as Abu Khaled Abu Asker, in the area of the school right before the attack.

Ibrahim said he saw the militant after he had responded to calls for volunteers to pile sand around the camp "to help protect the resistance fighters." Ibrahim went to pile sand near the school with his brother, Iyad, 20, who was then injured by the Israeli mortar fire.

U.N. officials were unable to immediately determine the accuracy of the Israeli army's statements.

# Venture Investors Struggle To Sell Their Start-Ups

By Claire Cain Miller  
THE NEW YORK TIMES

SAN FRANCISCO

In 2008, entrepreneurs and venture capitalists had difficulty cashing out of start-ups, underscoring just how much the financial crisis has pummeled the technology sector.

Only six venture-backed start-ups went public last year, the fewest since 1977 and down from 86 in 2007, according to data released Monday by the National Venture Capital Association and Thomson Reuters. Venture capitalists sold 260 companies in 2008, down from 360 in 2007.

Stock market investors do not want to invest in initial public offerings, said Mark Heesen, president of the association. And "potential acquirers have just become much more conservative in buying — stock prices are so volatile that they don't know how much money they have."

Cisco Systems, the leading maker of computer networking equipment, is typically an active acquirer, buying 10 to 15 technology companies a year. In 2008, it bought only five.

The few companies that did go public have performed poorly. They raised \$470 million in their public offerings, the lowest amount since 1979 and down from \$10 billion in 2007. As of Dec. 31, only one company, CardioNet, which makes technology to monitor cardiac patients' hearts outside hospitals, was trading above its offering price.

Acquisitions were more financially successful. Almost half of the companies acquired returned more than four times the amount of capital invested in them, according to the venture association. The largest sale of the year occurred when Dell bought EqualLogic, which makes storage systems for virtualization,

for \$1.4 billion in January 2008.

However, corporate acquirers may not continue to pay such attractive prices for venture-backed companies, Heesen said. He said that he feared Silicon Valley would return "to the post-bubble period where we saw a lot of acquisitions, but most of them were fire sales."

If venture-backed companies cannot achieve public offerings or acquisitions, it could have a ripple effect. Some limited partners, like universities and pension funds, have sought to put off their commitments to invest, and venture capitalists said they are reluctant to back many early-stage companies without more certain gains.

"Right now, it's really hard for us to think about doing a start-up investment," said Annette Campbell-White, founder of MedVenture Associates, a venture firm in California.

## Atheists Send Message on 800 Buses

By Sarah Lyall  
THE NEW YORK TIMES

LONDON

The advertisement on the bus was fairly mild, just a passage from the Bible and the address of a Christian Web site. But when Ariane Sherine, a comedy writer, looked on the Web site in June, she was startled to learn that she and her nonbelieving friends were headed straight to hell, to "spend all eternity in torment."

That's a bit extreme, she thought, as well as hard to prove. "If I wanted to run a bus ad saying 'Beware — there is a giant lion from London Zoo on the loose!' or 'The 'bits' in orange juice aren't orange but plastic — don't drink them or you'll die!' I think I might be asked to show my working and back up my claims," Sherine wrote in a commentary on the Web site of The Guardian.

And then she thought, how about putting some atheist messages on the bus, as a corrective to the religious ones?

And so were planted the seeds of the Atheist Bus Campaign, an effort to disseminate a godless message to the greater public.

"There's probably no God," the advertisements say. "Now stop worrying and enjoy your life."

Spotting one of the buses on display at a news conference in Kensington, passers-by were struck by the unusual message.

Not always positively. "I think it's dreadful," said Sandra Lafaire, 76, a tourist from Los Angeles, who said she believed in God and still enjoyed her life, thank you very much. "Everyone is entitled to their opinion, but I don't like it in my face."

## CNN Health Reporter Is Contender To Become Surgeon General

By Gardiner Harris  
THE NEW YORK TIMES

WASHINGTON

Dr. Sanjay Gupta, a neurosurgeon and CNN health reporter, is the leading contender to become the next surgeon general, a pick that would give the moribund office a higher profile but one that has received a mixed reaction among public health advocates.

Gupta, who confirmed on Twitter that he had been approached by the Obama transition team, discussed the job with the president-elect late last year in Chicago. He did not respond to an e-mail message seeking comment.

According to people at CNN and in the Obama transition team, Gupta is likely to make a decision about taking the job within a few days. News of his selection was first reported on Tuesday by The Washington Post.

Gupta presides over a small media empire that, in addition to his regular work on CNN, includes appearances on the "CBS Evening News" and columns in Time magazine. His first book, about the search for immortality, was published last year. He is paid for speaking engagements, a controversial practice for a journalist. The All American Talent & Celebrity Network lists his speaking fees as ranging from \$30,000 to \$50,000.

If he takes the job, Gupta would be accepting an ailing patient. The status and authority of the surgeon general, the titular head of the U.S. Public Health Service Commissioned Corps, has been on the wane for decades. It experienced a brief revival under C. Everett Koop, whose principled stand against cigarette smoking gave the office national credibility and new life as a popular public health adviser. Successive surgeons general, with small staffs and low profiles, have sought to capitalize on Koop's success, with mixed results.

# Amgen-UROP Scholars Program

## Undergraduate Research in the Sciences and Biotechnology, Summer 2009

Applications are now being accepted for the **2009 Amgen-UROP Scholars Program**.

Up to 26 students (approximately half from MIT) will be selected to conduct research in MIT laboratories, take part in networking and educational activities, and attend a mid-summer research symposium at UCLA. Participants receive competitive research pay, on-campus housing, and a food allowance.

**Applications are due by February 2, 2009.** For complete information on eligibility requirements and to access the online application, visit **mit.edu/urop/amgenscholars**.

The Amgen-UROP Scholars Program is managed by the **Office of Undergraduate Advising and Academic Programming (UAAP)**, and is funded by a grant provided by the **Amgen Foundation**.

For more information, contact UAAP staff at **amgenscholars@mit.edu**, or (617) 253-7306.

For details on Amgen Scholars Programs offered at other U.S. universities, visit **http://www.amgenscholars.com**.

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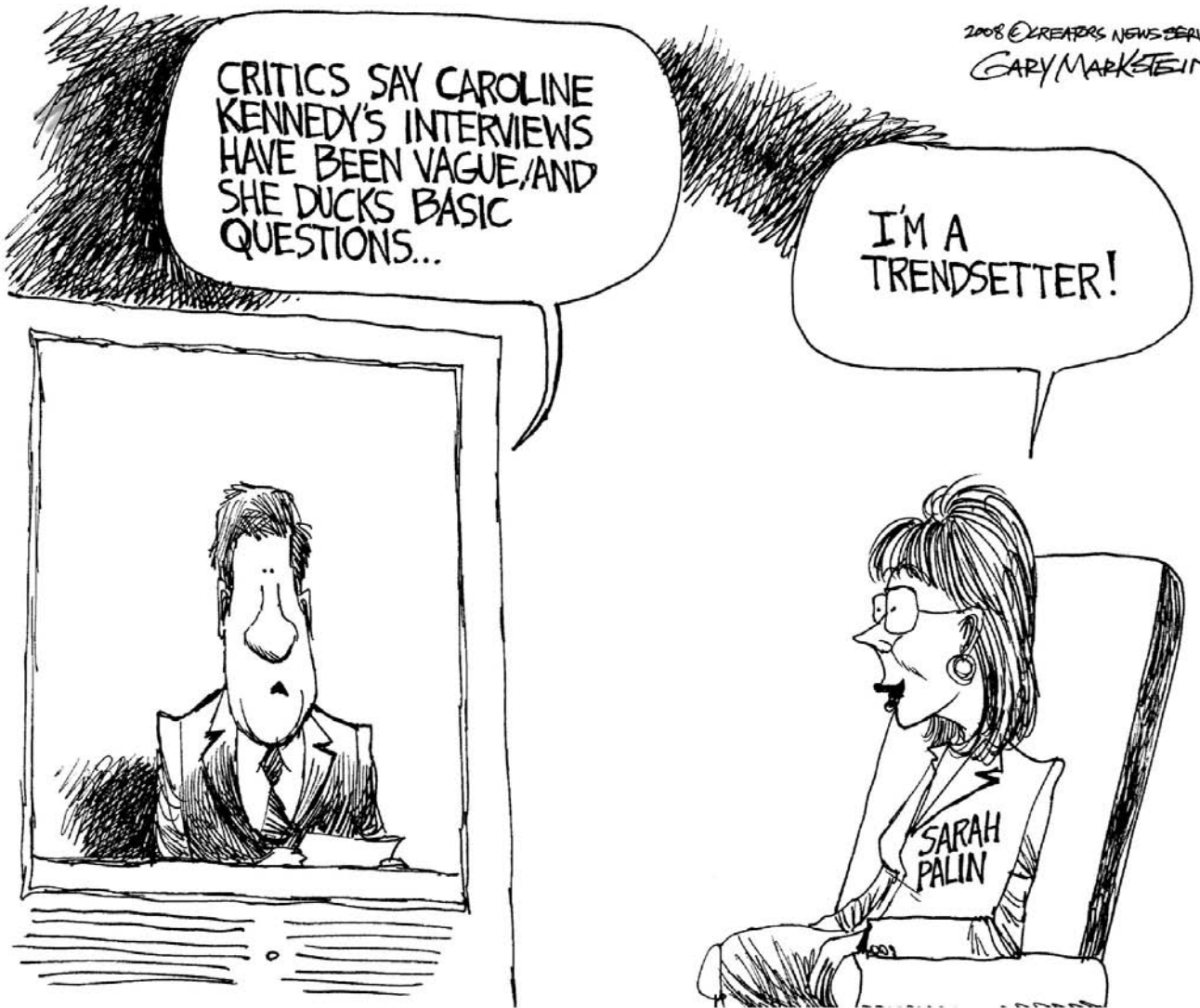
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“Gimme a high-five . . . I’ve vowed to keep on fighting too!”



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ARTS

CONCERT REVIEW

Experimental Antics at the Middle East

The Viennagram’s Debut Performance in Boston

By Sam Markson  
STAFF REPORTER

The Viennagram  
The Middle East, Cambridge, Mass.  
December 13, 2008

As I write this, I have yet to form a solid opinion of the Providence-based punk / showtunes / experimental outfit The Viennagram. At once the group is pretentious and unpolished. Its wisdoms are coal on the verge of becoming pearls, sometimes hitting, but often missing. It’s a spaghetti-on-the-wall philosophy, one that, for all but the most virtuosic, is better left for the rehearsal room than for the concert hall.

Their saving grace is that they know that, too.

They’re a five year work in progress, grown from a group of friends and acquaintances who met at the Olive Garden, where several members worked. Some were musicians, some were artists, and some were people simply fascinated by the project itself. The result was mixed. While generating some genuine output, band members say, early feedback told them to tighten up the act: fewer people on stage, and more music (and less roadie shock art).

What remains is a significantly more coherent, but still developing sound. They retain many of their performance art (though they hate to use the phrase) aspects: Dan “Danger Dan” Dubois comes from a primarily visual arts background and will paint, dance, scream, or otherwise contort himself on stage, to the confusion and amusement of the audience. Frontman A.V. (the eponymous Alex Vienna) is a character-actor of sorts, a self-created freak-show villain that’s unafraid to drink ink, wave dildos and plastic limbs, change costumes several times throughout a show, and otherwise draw gratuitous amounts of attention to himself.

Their goal is to bombard the senses. If the shrieking of A.V. and Danger Dan into megaphones doesn’t hit you, then maybe the ironic Dixie-land brass lines will, or watching the bass player bite a lightbulb, or the confetti that flies from a jury rigged catapult, or the just barely stable frame of pots and pan used as a drum set, or the fluorescent posterboard “pow!” sign

FESTIVAL REVIEW

‘First Night’ Celebration Electrifies Boston

Boston Arts Scene Rears Its Electric Head

By Sam Markson  
STAFF REPORTER

Various theatres and performance halls  
December 31, 2008

I boarded the 12:30 December 31 New York-Boston bus at the Port Authority, as my peers in line scoffed “I wonder why so many people are going to Boston for New Years.” At the time, that made sense. I had initially planned to stay in New York, but convenience and fatigue turned the Peter Pan bus line into an inexpensive and only slightly sketchy hotel. I knew vaguely that there was an arts festival in Boston on December 31 — the so-called “First Night” — and that it had some pretty slick events. I was down, and I was looking forward to sleeping in a bed that belonged to me.

What I discovered was the best-kept secret Boston ever had to offer.

The festival consisted of nearly twelve hours of events, accessible for nothing more than an \$18 button. Fare ranged from family activities to face-melting concerts for even the most selective music listeners (see the review on Hiromi’s SonicBloom).

Before making my way to the Berklee Performance Center, I had the pleasure of seeing “Aurelia’s Oratorio,” produced by Aurelia Thierree and the American repertory theatre.

thrown at the audience mid-act, or the flurries of feathers released from a mid-concert down pillow pillow-fight. And this is just how The Viennagram scratches the surface.

It will keep you awake, at only slightly more than the price of a medium latte.

My biggest criticism for the group (or for the audience — the lines blur) is that much of the shock and awe may distract from some excellent expression from the less-lit parts of the stage. Pianist “Turbo D” and guitarist Abe Edelman pulled the most weight and got the least attention, as did the group’s Berklee-trained brass section, which was clumped together on stage right and wasn’t as audible as the frontmen. But all that is forgivable, as The Viennagram is much more a work in progress than a standalone moment in time, a study of people as much as a documentation of what they can do. Guitarist Abe Edelman explained, “the theater of life never gets old,” and that audience versus band, audience versus audience, and band versus band were all fascinating conflicts and worthy of observation. At each show, even the most devoted Viennagram fans are confused. By the show’s end, though, they remember why they came: curiosity, and the pursuit of a mass consciousness: a bunch of people who don’t know what the hell is going on, and who are fine with that.

After the show, the room littered with confetti and feathers, A. V. told me how he loved how the whole crowd would go home, the scent of feathers still on them, and how every time they saw a pillow, for days, they would remember the show. That is The Viennagram’s immortality. I never got a clear answer on whether their music was more constructive or destructive, and I suspect it’s because The Viennagram isn’t sure.

While I feel that the Viennagram is far from the final word in music, they’re definitely on to something. This is a show you need to see live, a show that resurrects music as an experience, as a social experiment, and not just a solitary glimpse of a divine but isolated noise. Perhaps, in an age with so much music and nobody listening to it, The Viennagram’s unpredictability, lack of refinement, and, above all, their malleability in their pursuit of the perfect shit show, may be close to the right medicine.

Thierree’s brilliant technical work created an astounding, fantastic atmosphere, which translated as part circus, part magic act: a whirlwind of absurdity and impossibility. I walked out reminded of why live theatre lives on.

Afterward, I made my way to Hiromi. Enough said.

I spent the final hours of 2008 listening to Black Taxi on the Common, and then heading over to a dance party and countdown in front of the Boston Public Library (making good use of the free evening subway rides, courtesy of Mayor Menino). What astounded me was how friendly everyone in Boston seemed after my brief trip to New York. People don’t have urban dance parties the way they do here. Instead, they freeze their noses at Times Square and go home.

I guess I remembered why I like this city so much.

There were also brass bands, improv comedy troupes (from the likes of Improv Boston and Improv Asylum), Shakespearean sonnets and scenes from the Commonwealth Shakespeare Company, as well as ice sculpture displays. A fireworks show was tentatively scheduled, but canceled due to weather.

So if you find yourself in Boston in the final hours of 2009, don’t despair. Rejoice. There’s a whole lot more party in this city than New York would like to admit.

CONCERT REVIEW

Hiromi’s SonicBloom at Berklee Performance Center

Japanese Pianist Returns ‘Home’ for One Last Show

By Sam Markson  
STAFF WRITER

Hiromi’s SonicBloom  
Berklee Performance Center  
December 31, 2008 9:30 p.m.

I could say that Hiromi Uehara is one part Santana, one part Robert Fripp, and one part Monk, but it wouldn’t do her justice. Brought up in the Japanese conservatory environment and trained at Berklee (joining in 2003), Hiromi has carved out her distinctive musical niche by marrying her traditional, virtuosic training with an avant-garde flavor.

Her recordings are marketed as jazz, but she has a foot firmly in the progressive/rock family. Her music is above all energetic, effervescent, and exciting, whether that means laying down some swing beat, a funky sixteenth-note drive, or a surreal, unpredictable, textural work. She’s fond of polyphony, rhythmic and melodic complexity, extended improvisation, and she makes it known in her whirlwind performances that take the audience by storm.

Hiromi came back to Boston on First Night (Boston’s New Year’s arts festival) to grace her alma mater and play at the Berk-

lee Performing Arts Center (where she last played in 2003 as a student). She’s always played with the same backing band, her trusted friends Tony Grey (bass) and Martin Valihora (drums). Long-time collaborator Dave Fiuczynski (guitar) was also at the show, adding to the superlative performance with an array of micro-tonal tuned double-neck guitars.

Superb chemistry united the band members: when Hiromi contorts herself, moving fluidly between synthesizer and grand piano, the group follows suit. The show is intensely visual, without the cheap glamour of lights or stage props. The band members’ swift movements and meaningful facial expressions capture the contours of the music.

Memorable pieces from the night included “My Favorite Things,” the Richard Rodgers classic turned jazz classic by John Coltrane, and Hiromi’s own, cartoonish and yet cleverly electrifying student composition “The Tom and Jerry Show.” David Fiuczynski deserves credit, too, for being the only guy I’ve every seen actually use a double-neck guitar the way it was meant to be played.

All in all, an intense night, and a good bookend to a year of jazz.

CONCERT REVIEW

Bad Plus Play Residency at New York’s Village Vanguard

Comical, Eloquent Jazz

By Sam Markson  
STAFF WRITER

The Bad Plus  
The Village Vanguard, New York, New York  
December 30, 2008

A little business, a lot of casual. The members of The Bad Plus look less like performers than the awkward guys who forgot to dress up for the dinner party that is 9:00 at the Village Vanguard. Thirty-something yuppies sip at their Cabernet Sauvignon while three dudes jam in the corner. Go to a Bad Plus show and you’ll be as likely to hear a Nirvana cover as a heavily warped version of a Ligeti composition. Bassist Reid Anderson wails out surreal, textured lines while drummer David King lays out a frenetic beat complete with baby toy tambourines and other contraptions as garnishes. Rock out with your Jazz-Purists’-Shock out. Jazz you can almost dance to?

No kidding.

Jazz is a genre wondering how the hell it got so pretentious, and The Bad Plus is here to save it. Just yesterday jazz was about freedom, acceptance, and unity. Now it’s a specimen, an object of study, leashed close to the ivory tower. Not that there isn’t new jazz out there — new artists enter the scene every day, with fresh, interesting ideas. It’s just that the study and appreciation of jazz has been grounded to the conservatory and subcultural cognoscenti: an awkward mix of academics and neo-hepcats. Half of the jazz listeners I bump into are players themselves. It’s one big self-preaching choir. Non-listeners are afraid to get into it, assuming that they lack the musical knowledge to understand jazz, or worse, dismissing it as worthless snobbery.

Snobbery, perhaps, but not worthless, the Bad Plus contends. And they prove their point by bringing their music down to earth.

Listeners new to jazz will be attracted at first by snippets of songs they might have heard in the pop world (The Bad Plus opened their December 30 set with an ABBA cover). It’s just barely reminiscent of the original work, with pianist Ethan Iverson floating from idea to idea with virtuosic, yet emotionally schizophrenic lines. If nothing else, the Bad Plus makes for good comedy. They pepper the set with musical and verbal jokes (the way Mozart and Beethoven used to do it) to keep the mood light and the cognac flowing. Spontaneous synchronicity between instruments is intensely musical, but the sonic interactions between the players are at times rightfully clownish. They look and sound like a bunch of dudes, just chilling.

Jazzbos will be glad to hear a lot of genuine innovation going on here. While the covers of Black Sabbath and the Bee Gees attract a lot of attention, those works comprise a small portion of The Bad Plus’ repertoire. All three are talented composers in their own right, with distinct flavors to their work. The December 30 show was a good showcase of Reid Anderson’s melodic style.

In general, the Bad Plus spends much less time with the traditional idea of the “solo” than with group improvisational intercommunication. Only briefly will players really show off. The Bad Plus is more interested in a single coherent sound: where abstruse meets fun, where it’s okay that you can’t tell Cecil Taylor from Squeeze, and equally okay that you’ve transcribed every solo from Miles’ Prestige recordings. Sit back, relax, and think as hard as you want to.

While the covers of Black Sabbath and the Bee Gees attract a lot of attention, those works comprise a small portion of The Bad Plus’ repertoire.

# MIT Logarhythms Perform Annual Winter Concert In Kresge Theater

The Logarhythms, a male a cappella group, performed their Winter Concert on December 12 to a crowd in Kresge Theater.

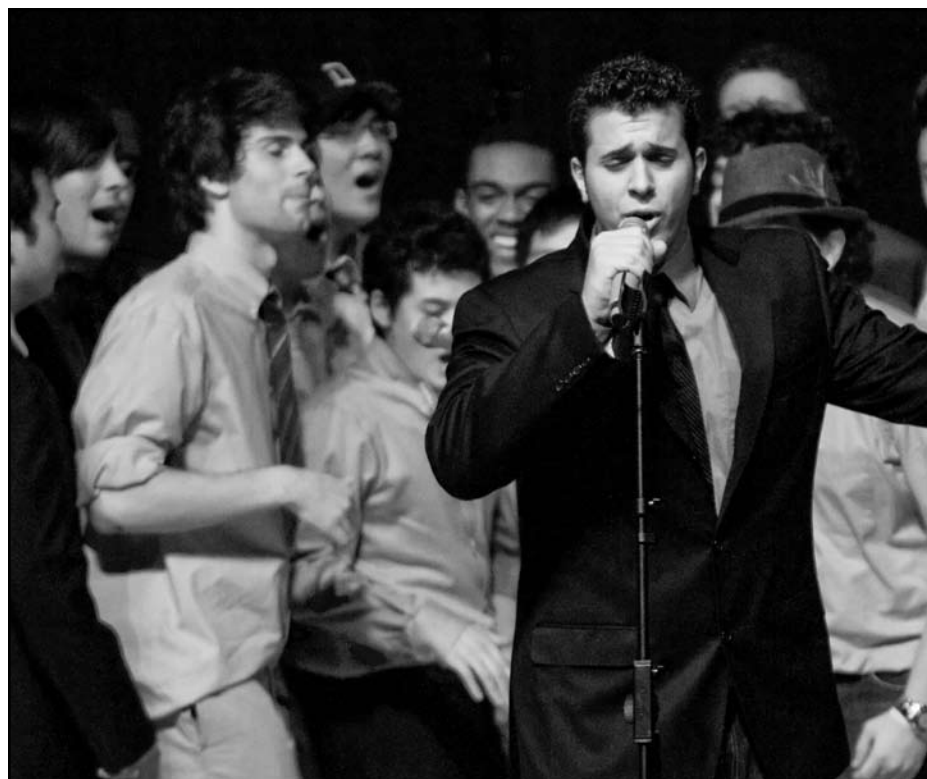
Logs Alumni join current members for the ballad "Superlogs."

(Clockwise from top-right.)

Benjamin A. Bloomberg '11 sings "See You Again" by Miley Cyrus.

Edan Krolewicz '12 sings "You Give Me Something" by James Morrison.

Photography by Andrea Robles



## SIPB IAP

### Caffeinated Crash Course in Ruby

Wed Jan 7, 3–6pm, 1-115

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### Being Productive with Emacs

Wed Jan 7 and 14, 6–7pm, 4-231

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### Intro to Web Application Security

Thurs Jan 8, 9–11pm, 56-114

Learn techniques to keep your webapps safe from crackers.

### Extending BarnOwl

Mon Jan 12, 3–5pm, 3-133

Learn how to extend MIT's most popular Zephyr client.

### Caffeinated Crash Course in PHP

Tues Jan 13, 7:30–10:30pm, 1-115

Dive in to the popular web programming language.

### Programming in Python

Tues/Thurs Jan 13, 15, 20, & 22, 9–11pm, 56-114

Learn Python, a simple and intuitive scripting language.

### Caffeinated Crash Course in C++

Wed Jan 14, 3–6pm, 1-115

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#### HACKFEST

Friday January 9, 10 AM - 6 PM, MIT Tang Center Building E5 1

#### BARCAMP

Saturday January 10, 9 AM - 5 PM, MIT Tang Center Building E5 1

#### FUDPUB

Saturday January 10, 6 PM - 10 PM, Flat Top Johnny's

#### HACKFEST

Sunday January 11, 10 AM - 6 PM, MIT Tang Center Building E5 1

### LEARN MORE

<https://fedoraproject.org/wiki/FUDCon/FUDConF11>

FUDCon is sponsored by Red Hat, Inc.



January 7,  
2009

# COMICS

The  
Tech

# FUN

Page  
7

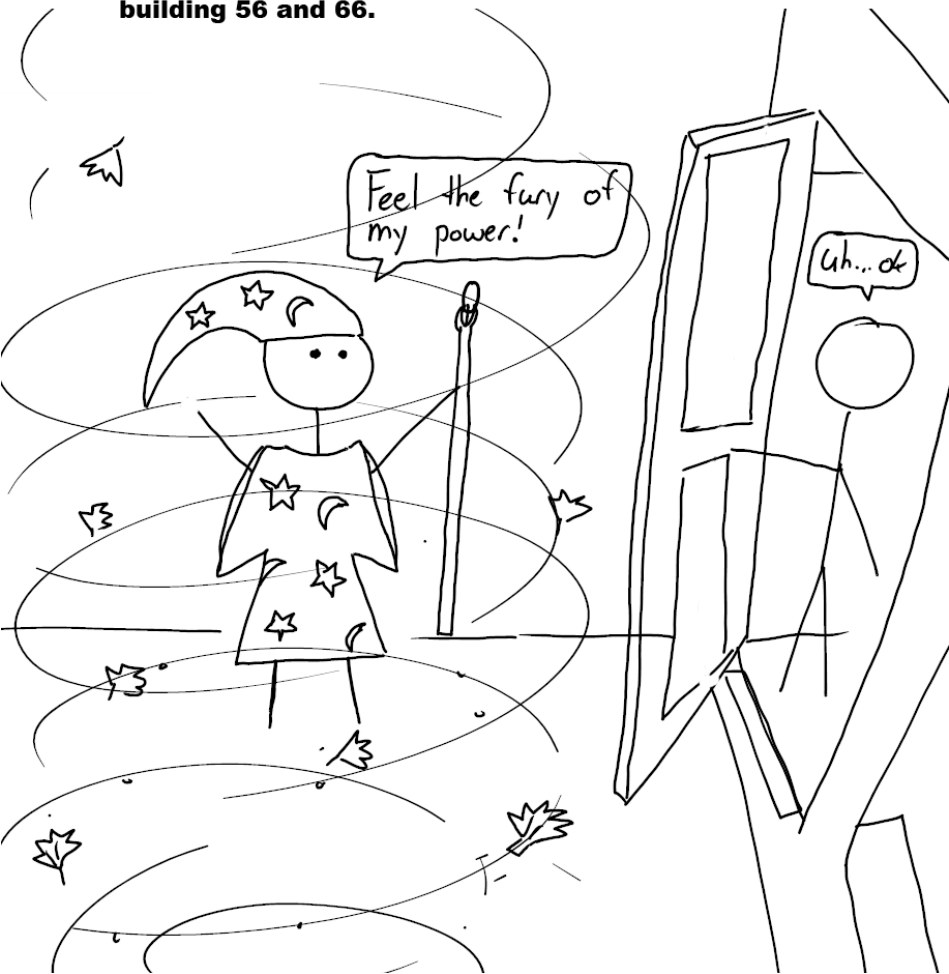
# PAGES

The Daily Blunderbuss

by Ben Peters

Today's Recipe for Awesome:

- 1 Wizard Hat
- 1 Wizard Robe
- 1 Wizard Staff
- 1 Unique air conditions behind building 54 and between building 56 and 66.



# su | do | ku

© Puzzles by Pappocom

Instructions: Fill in the grid so that each column, row, and 3 by 3 grid contains exactly one of each of the digits 1 through 9.  
Solution on page 10.

		2					4	
7				6	2	8		3
		1		9		5		
			3	8			5	
	7			4	6			
		9		3		4		
8		3	7	5				6
	5					9		

Solution, tips, and computer program at <http://www.sudoku.com>

## Crossword Puzzle

Solution, page 10

ACROSS

- 1 Low-\_\_ diet
- 5 Yuletide song
- 10 Hogwash!
- 14 Woodwind
- 15 Love of Luigi
- 16 Sch. for Bruins
- 17 Keaton sculpture?
- 19 Shipshape
- 20 Fulton's power
- 21 Late July babies
- 22 Wife of Petruchio
- 23 Bad day for Caesar
- 25 Popped the top off
- 27 Overturned
- 31 Run smoothly
- 32 Sets to rest
- 33 Steno pad
- 37 Dessert tray options
- 38 Do the lawn
- 39 Strongly

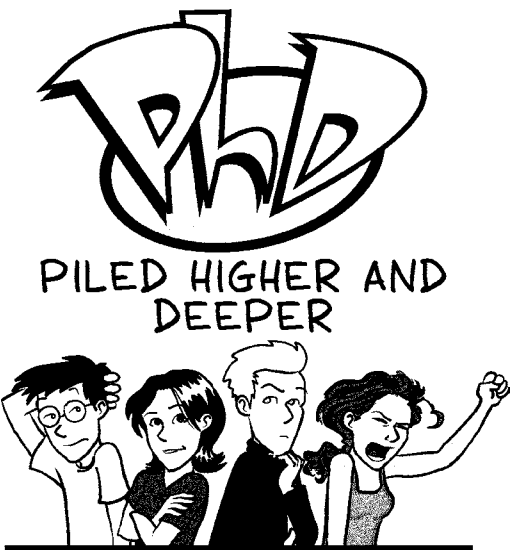
DOWN

- 40 Lifted a barbell overhead
- 43 Yellow shade
- 45 October birthstone
- 46 Attempts to do
- 47 Principal-free
- 50 Brad of "Troy"
- 51 Backside
- 52 Portable music device
- 54 \_\_ than that...
- 59 Vicinity
- 60 Hairdresser's insult?
- 62 Bellhop's burden
- 63 \_\_ we meet again
- 64 Jai \_\_
- 65 Thin strip of wood
- 66 Finals
- 67 Candidate Perot

- 1 Corn holders?
- 2 Lie adjacent to
- 3 Ascended
- 4 Greek letter
- 5 Wheels
- 6 Moseyed
- 7 Rakes
- 8 Estimator's equivocation
- 9 Frees from captivity
- 10 Bed in a fallout shelter?
- 11 Vast quantity
- 12 List of candidates
- 13 Disliked intensely
- 18 Poet Dickinson
- 24 \_\_ Plaines, IL
- 26 Med or school starter
- 27 Light knocks
- 28 Actress Lena
- 29 Entreaty
- 30 Cleric's

- background?
- 31 Mil. captive
- 33 Sign of assent
- 34 Spoken
- 35 Fairytale baddie
- 36 Piano parts
- 38 Gibson or Brooks
- 41 Audit pro
- 42 Large flatfish
- 43 Jazz devotee
- 44 Thespian
- 46 Morsel
- 47 Saudis and Omanis
- 48 "The Last Supper," e.g.
- 49 Last Greek letter
- 50 Dark red wines
- 53 Window section
- 55 Ski lift
- 56 Sainly symbol
- 57 Time periods
- 58 Baseball stat
- 61 Golfer Ernie

1	2	3	4		5	6	7	8	9		10	11	12	13
14					15						16			
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59					60				61					
62					63						64			
65					66						67			

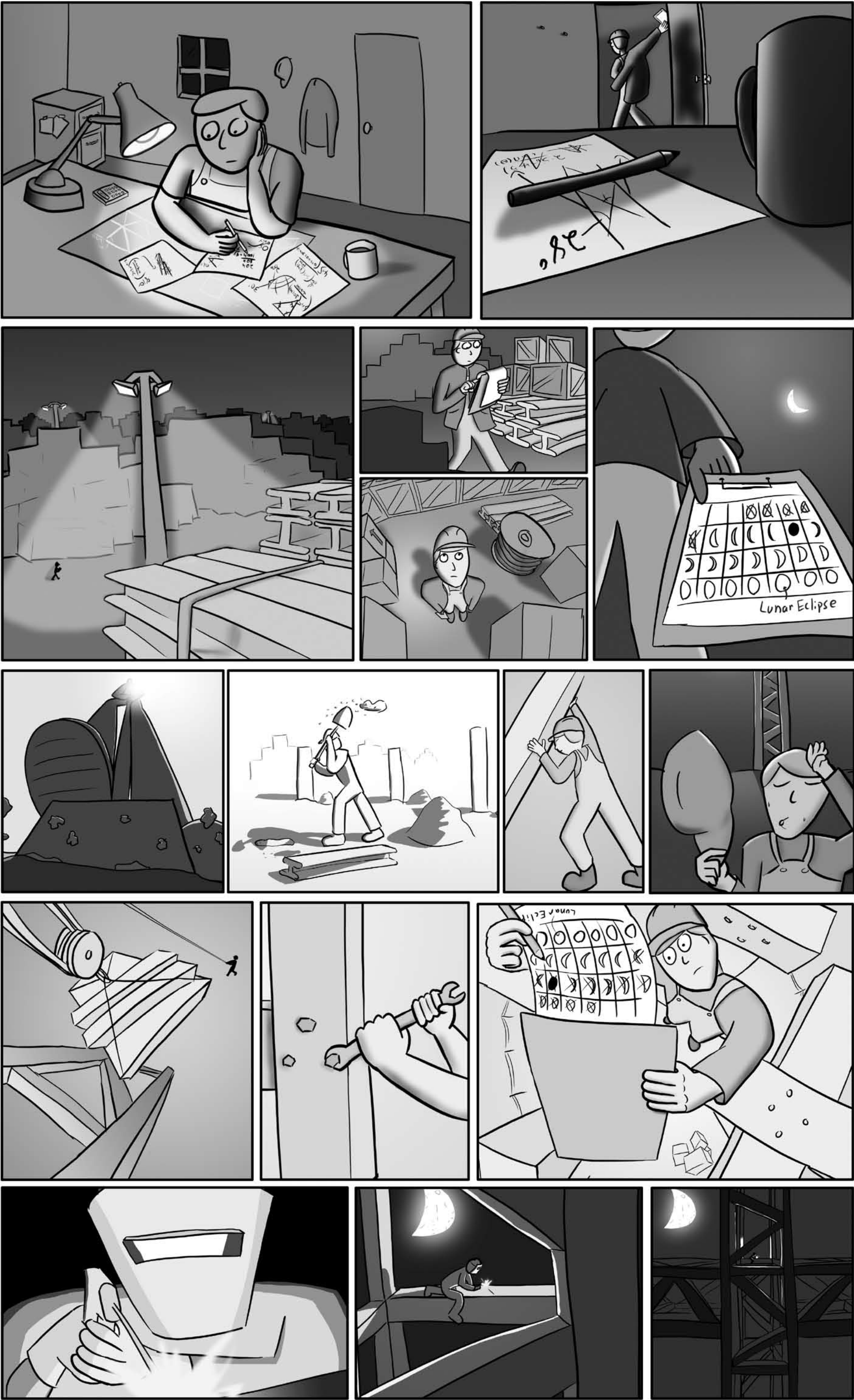


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**Dilbert®** by Scott Adams

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# Popularity of Gmail Has Caused Problems For Barracuda Filter

**Spam,** from Page 1

Services and Technology had received about a dozen complaints about the troubles with the Barracuda machines and Gmail servers. He could not say how many messages might have been delayed or misdelivered.

The Barracudas face a daunting problem because they handle several million messages a day. Looking at one of the six machines on Tuesday, Schiller said that 52,800 messages had been delivered, 27,000 had been delivered but marked as possible spam, and 852,000 attempts to send a message had been blocked.

The Barracudas have not always run smoothly. Sometimes they “eat” messages, which may sometimes be delayed for hours or days. At least once a month, spammers target one of the six Barracuda machines and send it tens of thousands of junk messages, paralyzing the machine’s queue; legitimate mail which was passing through that machine may be delayed for as long as it takes to sort out the mess.

Schiller said MIT is testing out an alternative to the Barracuda machines. He declined to comment on specific vendors or prices. A sticking point in prior negotiations has been fees: many anti-spam vendors charge a substantial fee per e-mail user. In exchange for a flat fee, Barracuda mails MIT a black-and-blue box which filters e-mail for them.

Other vendors might provide just the software and let MIT use its own hardware, or they might supply superior “black boxes” — occasional hard drive and motherboard failures have hurt Barracuda reliability. Other antispam software might be easier to monitor: much Barracuda log information can only be viewed on a Web server on the device and cannot be extracted for later inspection.

But until MIT gets itself a better deal, the Barracudas are here to stay.



QUENTIN SMITH—THE TECH

A chain of foam monkeys was hung from the ceiling of Lobby 7 on Monday, December 15 in honor of the game “Barrel of Monkeys.” A sign hung above the Infinite read “Hacking, more fun than ...”, a sentence completed with “a barrel of monkeys.” Facilities removed the hack by 9 a.m.

Solution to Sudoku	Solution to Crossword
from page 7	from page 7
6 8 2 5 1 3 7 4 9	C A R B C A R O L B O S H
7 9 5 4 6 2 8 1 3	O B O E A M O R E U C L A
4 3 1 8 9 7 5 6 2	B U S T E R B U S T N E A T
9 2 4 3 8 1 6 5 7	S T E A M L E O S K A T E
3 1 6 9 7 5 2 8 4	I D E S O P E N E D
5 7 8 2 4 6 3 9 1	T O P P L E D P U R R
2 6 9 1 3 8 4 7 5	A L L A Y S N O T E B O O K
8 4 3 7 5 9 1 2 6	P I E S M O W U R G E
1 5 7 6 2 4 9 3 8	S N A T C H E D C A N A R Y
	O P A L T A C K L E S
	A M O R A L P I T T
	R U M P I P O D O T H E R
	A R E A B A R B E R B A R B
	B A G S U N T I L A L A I
	S L A T T E S T S R O S S

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Wednesdays, 7:30–9:30pm, 36-112

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Learn to play pre-1600 dance music with the Waytes of Carolingia. Bring an instrument you can play, but no experience with Medieval music necessary.

Medieval Choral Music

Mondays, 8:30–10pm, 36-112

Come sing a varied selection of Medieval and Renaissance songs with the Quire of Carolingia. Music provided; no experience necessary.

Intro to Commedia dell'Arte: Scene Work

Tues Jan 13, 7–9pm, 36-153

Commedia dell'Arte is a form of Italian improv dating back to the Renaissance that is still hilarious today. Different aspects covered each week; come to any or all.

Obsidian and Flint Knapping

Tues Jan 13, 7–9pm, 1-150

Ever been impressed by a stone arrowhead or knife-blade? Ever wanted to know how it was done? Make and take home your own obsidian arrowhead or spearpoint.

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# Dreamers and Doers: Many Innovators Get Started as Undergrads

**By John Schwartz**  
*THE NEW YORK TIMES*

Nicolas Naranjo knocked on Evan Kimbrell's door at midnight. At other colleges, this might have been a prelude to a fraternity prank or an invitation to help float the keg at the end of a party. But Mr. Naranjo, who had just arrived in the United States from his native Colombia some weeks before, wanted to talk about starting a business. He had an idea about a hop-on, hop-off bus service for college tours around the Boston area. Mr. Kimbrell had tried to start a bus company the previous year and knew the pitfalls — and was happy for the break from his studies to talk business.

This is life in the E-Tower at Babson College in Wellesley, Mass. Babson focuses on business, and E-Tower focuses, even more tightly, on entrepreneurship. The residents of E-Tower hash out new business plans at Monday night meetings, and they talk shop throughout the day and night.

"We're really a dorm of dreamers and doers," says Prinya Kovitchindachai, who is hoping to market a vile-tasting pill, imported from Thailand, that he touts as a hang-over treatment. "College students are the largest group of binge drinkers," he says, quietly gleeful at the prospect of such a large market so close at hand. Friends have helped him bone up on the basics of international shipping, of securing shelf space and — in a consultation with a neighbor who was wearing a towel and still dripping from the shower — of creating Web sites.

"Any school can teach entrepreneurship," he says, "but at Babson, we live entrepreneurship."

Now, let's not get carried away: as a reporter and as a parent, I find myself on plenty of college campuses these days, and many of the students I meet are indistinguishable from the dull-eyed slackers I went to college with (when dinosaurs roamed the Earth and Pluto was still a planet). But then there are those who have this ... THING, this go-getting excitement to start something, make something. They want money, sure. But the overwhelming desire seems

to be to carve out something of their own.

Today's students have grown up hearing more about Bill Gates than F.D.R., and they live in a world where startling innovations are commonplace. The current crop of 18-year-olds, after all, were 8 when Google was founded by two students at Stanford; Mark Zuckerberg founded Facebook in 2004 while he was at Harvard and they were entering high school. Having "grown up digital" (to borrow the title of Don Tapscott's recent book on the Net Generation), they are impatient to get on with life.

"They're great collaborators, with friends, online, at work," Mr. Tapscott wrote. "They thrive on speed. They love to innovate."

The easiest way to find kids like these is to check in on entrepreneurship education, in which colleges and universities try to prepare their students to recognize opportunities and seize them.

For those who haven't been paying attention, the idea of entrepreneurship might bring up the Memo Minder, the lame invention by the "Future Enterpriser" played by Bronson Pinchot in "Risky Business."

Reader, you date yourself: that was 1983. In the intervening decades, Tom Cruise has grown up and entrepreneurship programs have boomed.

A report issued last year by the Kauffman Foundation, which finances programs to promote innovation on campuses, noted that more than 5,000 entrepreneurship programs are offered on two- and four-year campuses — up from just 250 courses in 1985. Full-scale majors, minors or certificates in entrepreneurship have leaped from 104 in 1975 to more than 500 in 2006. Since 2003, the Kauffman Foundation has given nearly \$50 million to 19 colleges and universities to build campus programs.

Lesla Mitchell, a Kauffman vice president, says that the foundation is extending the reach of its academic gospel, which used to be found almost exclusively in business schools.

# Lauren Tsai Was Athlete, Honor Student, Engineer

**Tsai, from Page 1**

three varsity sports — field hockey, basketball, and softball — and was named MVP of the New England Prep School Basketball Championship in her senior year.

After graduating from MIT, Lauren earned a master's degree in mechanical engineering from Stanford University. Lauren was a recipient of the Barry M. Goldwater Scholarship for the study of science and engineering and had been inducted into the Tau Beta Pi Engineering Honor Society and the Pi Tau Sigma Mechanical Engineering Honor Society.

Lauren had completed the rotational Engineering Leadership Development Program at Raytheon. While in this program, she worked

for Raytheon in Tewksbury, Mass., Tucson, Ariz. and Plano, Texas. She recently returned to the Boston area to take a position as senior engineer at Raytheon's research and development campus in Sudbury, Mass.

Contributions may be made in Lauren's name to benefit children's literature at the Howe Library, 13 South Street, Hanover, NH, 03755.


If you have memories or photos that you would like to share with Lauren's family and friends, e-mail: [contact@laurentsai.com](mailto:contact@laurentsai.com)

**LEGAL COUNSEL**

MIT students, family, employers and start-ups seeking U.S. legal counsel, campus or office consultation. Call: James Dennis Leary, Esq. 321-544-0012

### Eating Disorder Treatment

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# New Ethics Reform Bill Would Stiffen Mass. Bribery Penalties

**Ethics reform, from Page 1**

from \$5,000 and three years.

The current penalty for bribery is among the weakest in the nation, Patrick said, but his plan would make it one of the toughest.

Also under Patrick's plan, the secretary of state would get the power to suspend or revoke lobbyists' licenses and the attorney general could record conversations in public corruption investigations. Under current law, state law enforcement officials can wiretap only in cases involving organized crime.

Patrick, who is halfway through his first term, said he would file a bill with the proposals on Wednesday.

The proposals are essentially recommendations from a task force that Patrick appointed after Dianne Wilkerson, a longtime Democratic state senator, was arrested in October on federal charges of taking more than \$23,000 in bribes. Investigators taped Wilkerson, who has resigned but pleaded not guilty, appearing to accept wads of cash from businessmen who wanted her help getting a liquor license.

The bipartisan task force found that the State Ethics Commission, which oversees the conduct of public employees, needs more power. For example, the commission can summon documents and testimony during an investigation but cannot directly enforce such orders. Instead, the commission has to file a lawsuit and wait for a judge to decide whether to enforce them.

Under the new law, said Ben Clements, Patrick's chief legal counsel, a public official who received a summons from the ethics commission could avoid complying only by seeking a judge's ruling himself.

The commission recently went to court to force Salvatore F. DiMasi, the Democratic speaker of the state House of Representatives, to respond to a subpoena for records in an investigation into a potential ethics violation.

In a statement, DiMasi did not offer an opinion of Patrick's proposals or respond to the governor's request that the legislature vote on them within a month. He said that "some common sense ethics reforms should be considered" this year.

Patrick, a newcomer to politics, and DiMasi, a veteran of Beacon Hill, have clashed over some of the governor's past proposals, but lately they have gotten along publicly.

A spokesman for Therese Murray, a Democrat who is president of the State Senate, said the Senate would give the proposals "full consideration."

Wilkerson's resignation was not the only one from the State Senate last year. J. James Marzilli Jr., a veteran Democratic state senator from Arlington, resigned after being charged with trying to grope a woman on a park bench.

In August, the Middlesex County register of probate was charged with stealing thousands of dollars from cash and copy machines in a county building. And in October, two employees of the Department of Conservation and Recreation, including a district manager, were charged with stealing 2,000 feet of ironwork from a historic bridge over the Charles River and selling it to a scrap yard.

Meanwhile, a Boston city councilor was charged in November with taking a \$1,000 bribe.



ERIC D. SCHMIEDL—THE TECH

MITbeef went "beef caroling" around campus on the evening of December 16, singing beef-flavored versions of well-known carols and handing out beef jerky to passersby.



ERIC D. SCHMIEDL—THE TECH

On the morning of December 9, hackers turned the Mechanical Engineering Lounge in Building 3 into an "aquarium" featuring a sea-monster with scales made of old final exams, a sandcastle, Tim the Beaver in a scuba outfit swimming away from the sea-monster, seashells, and bubbles in the windows. The hack was presumably a commentary on the state of MIT students being chased by final exams.

SPORTS

Game of the Week

Ice Hockey Wins 7-4 Over Bridgewater in Final Game of 2008

By Greg McKeever  
DAPER STAFF

The MIT Men's Ice Hockey team tallied four consecutive goals in the final 24 minutes, the last two by Justin D. Myers '11 to complete a hat trick, en route to a 7-4 win over Bridgewater State College in their final game of 2008.

Myers was one of five Engineers to find the back of the net while Michael C. Kozlowski G led the team with three assists.

John Cole gave Bridgewater State the early lead, scoring just three minutes into the contest. The Engineers struck back mid-way through the period on Ryan W. Ballentine's '09 power-play goal from Nick R. LaBounty '09. Bridgewater State regained the lead just over a minute later on a tally by Derek Fortuna.

Myers' first marker of the game came 1:12 into the second period as he beat Bridgewater State goaltender Dan Norton off a pass from Vladimir Sobes '11. Cole's second goal just 1:06 later gave the advantage to the host Bears once again. Bill Near (from Michael Rosensweig and Brad Holschuh) erased that deficit shortly after, tying the game at three. Despite matching BSC

goal-for-goal through the game's first 30 minutes, MIT was still unable to break through and gain the lead. Chris Boyle pushed the Bears ahead yet again, 4-3, with just over eight minutes remaining in the second period.

That goal would prove to be Bridgewater State's last however, setting up MIT's dramatic four-goal spurt to close out the contest. Kevin M. Farino '10 struck first with 3:39 remaining in the second, as Kozlowski and Myers picked up their first assists of the night. Finally, with 12:01 to go in regulation, Sobes gave the Engineers their first lead in the game, scoring what would prove to be the game winner with help from Ballentine and Kozlowski. Myers added a pair of insurance goals less than one minute apart to clinch the come from behind win.

In addition to Myers and Kozlowski, eight Engineers ended up in the point column, with Ballentine, Sobes, and Farnio each recording a goal and an assist. MIT goaltender Stephen L. Yablonski '11 was solid between the pipes, making 31 saves to pick up the win.

The Engineers return to action on January 14 when they host Northeastern at 7:00 p.m. in the Johnson Ice Rink.

Yale Bulldogs Wear Down Men's Basketball, 86-63

Facing its first Division I opponent in 18 years, MIT was unable to keep pace with Yale University's size and depth as the Bulldogs outscored the Engineers by 10 in each half en route to an 86-63 victory on Saturday.

Sports Shorts

James M. "Jimmy" Bartolotta '09 wowed the largest crowd the Engineers have seen this season with several spectacular plays, but despite his terrific performance and game-high 32 points, MIT had few answers for Yale's inside attack.

In addition to delivering his fifth 30-point game of the season, Bartolotta added three blocks and three steals on the defensive end. Willard J. "Billy" Johnson '09 chipped in 13 points and six rebounds, while rookie James D. Karraker '12 finished with 12 points on 4-of-9 shooting. Bradley H. Gampel '09 added four points and a team-best six assists while the rest of the MIT contingent combined to finish 0-of-9 from the field.

The victory moved Yale's all-time record against MIT to 6-0 as the teams met on the hardwood for the first time since 1973. The game marked the Engineers' third game versus a Division I opponent since 1986.

—James Kramer, DAPER Staff

Women's Basketball Falls to Simmons, 48-40

Simmons College tallied 12 unanswered points during the final four minutes of regulation to pull out a 48-40 win over host MIT in non-conference women's basketball action on Saturday. Cheryl M. Kwinn '09 reached double-digits in rebounding for the third game in a row with 20 boards to go along with seven points and a team-high four assists for the Engineers.

Simmons quickly established a 7-2 advantage, which MIT matched on a basket by Clara J. Yuan '09 and a three-pointer from Jamie L. Simmons '12. After a 17-5 Simmons run, MIT narrowed the gap to seven (24-17) at

the break courtesy of a layup and free throw by Hannah E. Sparkman '12 and a jumper from Yuan.

Simmons maintained a slight edge until midway through the second half when a Jamie Simmons' steal setup a layup by Yuan which ignited a 12-4 run and resulted in MIT's largest lead (40-36) with 4:19 remaining. A final push from the Sharks put Simmons ahead for good with 2:11 left to play.

Yuan posted a team-high 12 points while Sparkman added six coming off the bench. Kristen E. Whaley '11 collected nine rebounds as Amy J. Marshall '09 contributed six of her own.

—Mindy Brauer, DAPER Staff

Sailing Captures Second-Place Finish at Rose Bowl Regatta

The MIT sailing team rang in the New Year in style with a remarkable second place finish out of 24 entries at the Rose Bowl Regatta this past Saturday. With an amazing score of 95, the Engineers fell just nine points shy of event winner and nationally ranked No. 1 Boston College. Both MIT and BC were the only teams who finished with scores lower than 100, as the tallies ranged from 86 to 396.

The Engineers proved incredibly consistent between both A and B divisions, with the former placing fourth in its circuit and the latter third. In an extraordinary showing, both groups placed in the top nine in all nine races. Along the way, A team skipper Brooks L. Reed '09 and crew Lisa A. Schlecht '10 finished second twice and first once, while B squad leader Joshua C. Leighton '10 and crew Victoria E. Lee '10 slotted third twice and first once. Each team closed with four top-five finishes.

"Not a bad way to start the 2009 season!" exclaimed MIT Sailing Master Fran Charles.

Rounding out the top five teams were Georgetown University, the College of Charleston, and St. Mary's College.

—Mike Stoller, DAPER Staff

UPCOMING HOME EVENTS

Saturday, Jan. 10, 2009

Men's Track and Field Alumni Meet 12 p.m., Johnson Track  
Women's Track and Field Alumnae Meet 12 p.m., Johnson Track  
Women's Gymnastics vs. SUNY Cortland, Rhode Island College, Yale University, Ursinus College, and Wilson College 1 p.m., duPont Gymnasium  
Men's Basketball vs. Babson College 2 p.m., Rockwell Cage  
Women's Ice Hockey vs. Salve Regina University 3 p.m., Johnson Athletics Center

Monday, Jan. 12, 2009

Men's Basketball vs. Newbury College 7 p.m., Rockwell Cage

Tuesday, Jan. 13, 2009

Women's Ice Hockey vs. Nichols College 7 p.m., Johnson Athletics Center  
Men's Volleyball vs. Lesley University 8 p.m., Rockwell Cage

SCOREBOARD

Men's Basketball

Tuesday, Dec. 9, 2008

Emerson College (4-3) 57  
MIT (7-3) 65

Saturday, Jan. 3, 2009

MIT (7-4) 63  
Yale University (3-9) 86

Women's Basketball

Wednesday, Dec. 10, 2008

MIT (3-5) 30  
Regis College (9-0) 62

Saturday, Jan. 3, 2009

Simmons College (6-3) 48  
MIT (3-6) 40

Men's Ice Hockey

Wednesday, Dec. 10, 2008

MIT (4-3-1) 7  
Bridgewater State College (5-6-0) 4

Women's Ice Hockey

Thursday, Dec. 11, 2008

University of Southern Maine (7-3-0) 4  
MIT (1-6-0) 1

Sailing

Saturday, Jan. 3, 2009

Rose Bowl Regatta  
MIT 2nd of 24

20.104 Chemicals in the Environment: Epidemiology, Toxicology and Public Health

(Same subject as 1.081, ESD.053J)

William G. Thilly and Robert McCunney

thilly@mit.edu

mccunney@mit.edu

Prereq: 5.112 or 3.091, 7.01x

Units: 3-0-9

Lecture: Tuesday and Thursday 1:00-2:30 (56-169)

Quantitative analysis of relationships between occupational and environmental exposures and risk for common mortal diseases such as cancer and atherosclerosis. Use of U.S. and Japanese mortality data to delimit the historical timing of changes in environmental risk. Use of state wide community data to explore local environmental risks. New this spring: Exploration of role of newly discovered "metakaryotic" organogenic stem cells in tumor and plaque initiation. See <http://epidemiology.mit.edu>.



MIT CENTER FOR INTERNATIONAL STUDIES

IAP Course with actress-author Mia Kirshner

Course Times:

Tuesdays/Thursdays 2 – 3:30 pm  
(Jan. 20, 22, 27, 29)

Mia Kirshner will teach a multimedia course based on *I Live Here*—a multimedia publication that presents the stories of refugees and displaced people in four specific areas of the world.

Learn more on the IAP activities sponsored by CIS page:

[student.mit.edu/iap/nscls.html](http://student.mit.edu/iap/nscls.html)

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